

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P263445

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-SQP-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4704.0 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

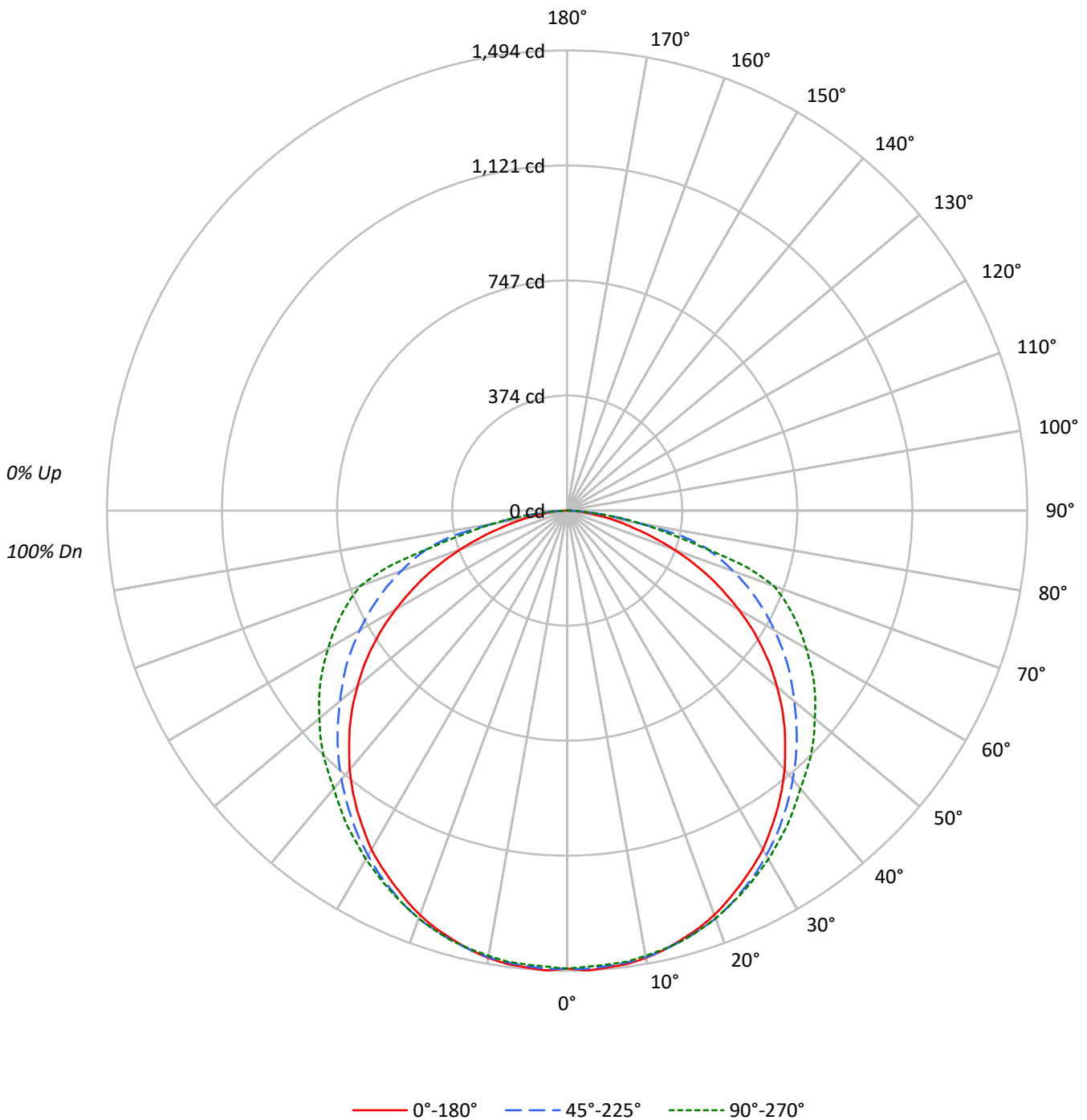
Input Watts (W): 60.171
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2001	2001	2001
5°	2012	2005	1999
10°	2015	2012	2005
15°	2007	2014	2014
20°	2000	2018	2018
25°	1984	2013	2020
30°	1974	2008	2031
35°	1952	2003	2047
40°	1929	2002	2070
45°	1900	2007	2131
50°	1861	2014	2197
55°	1813	2052	2297
60°	1733	2092	2413
65°	1625	2158	2584
70°	1453	2256	2810
75°	1200	2413	2324
80°	979	1863	1883
85°	787	1238	1162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.0
10°-20°	407.5	8.7
20°-30°	622.8	13.2
30°-40°	761.8	16.2
40°-50°	815.1	17.3
50°-60°	780.5	16.6
60°-70°	660.2	14.0
70°-80°	418.5	8.9
80°-90°	96.3	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1171.6	24.9
0°-40°	1933.4	41.1
0°-60°	3529.0	75.0
0°-90°	4704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1490	1482	1485	1482	1480	142
15°	1441	1438	1446	1446	1446	407
25°	1336	1336	1356	1361	1361	617
35°	1188	1195	1220	1237	1246	743
45°	999	1016	1054	1098	1120	769
55°	773	797	875	948	979	689
65°	510	559	678	770	812	503
75°	231	326	464	462	447	251
85°	51	78	80	73	75	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1487.0	1487.0	1487.0	1487.0	1487.0
2.5°	1494.3	1487.0	1489.5	1487.0	1482.2
5°	1489.5	1482.2	1484.6	1482.2	1479.7
7.5°	1484.6	1477.3	1479.7	1477.3	1477.3
10°	1474.9	1467.6	1472.4	1470.0	1467.6
12.5°	1460.3	1455.4	1460.3	1457.9	1457.9
15°	1440.9	1438.4	1445.7	1445.7	1445.7
17.5°	1421.4	1419.0	1428.7	1428.7	1428.7
20°	1397.1	1394.7	1409.3	1409.3	1409.3
22.5°	1368.0	1365.5	1385.0	1385.0	1385.0
25°	1336.4	1336.4	1355.8	1360.7	1360.7
27.5°	1304.8	1304.8	1326.7	1333.9	1333.9
30°	1270.8	1270.8	1292.6	1302.4	1307.2
32.5°	1229.5	1234.3	1258.6	1270.8	1275.6
35°	1188.2	1195.4	1219.7	1236.8	1246.5
37.5°	1144.4	1151.7	1180.9	1200.3	1212.5
40°	1098.3	1108.0	1139.6	1163.9	1178.4
42.5°	1047.2	1061.8	1098.3	1129.8	1149.3
45°	998.6	1015.6	1054.5	1098.3	1120.1
47.5°	945.2	964.6	1008.4	1064.2	1086.1
50°	889.3	908.7	962.2	1025.4	1049.7
52.5°	833.4	855.3	918.5	986.5	1015.6
55°	772.7	797.0	874.7	947.6	979.2
57.5°	709.5	738.7	826.1	903.9	937.9
60°	643.9	680.3	777.5	860.1	896.6
62.5°	575.9	619.6	728.9	816.4	855.3
65°	510.3	558.8	677.9	770.2	811.5
67.5°	439.8	500.5	626.9	726.5	765.4
70°	369.3	439.8	573.4	675.5	714.4
72.5°	298.9	383.9	520.0	612.3	612.3
75°	230.8	325.6	464.1	461.7	447.1
77.5°	174.9	272.1	381.5	325.6	328.0
80°	126.3	218.7	240.5	240.5	243.0
82.5°	85.0	167.7	155.5	153.1	157.9
85°	51.0	77.8	80.2	72.9	75.3
87.5°	24.3	26.7	21.9	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)